

Curriculum Vitae



Hamed Younesi- Kordkheili

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PERSONAL

- Full name: **Hamed Younesi-Kordkheili**
- Place of birth: Sari, Iran
- Date of birth: February, 1985
- Educational status: Associate Professor at Semnan University from 2014 to now

Academic Email: hamed.yunesi@semnan.ac.ir

Personal Email: younesi1363@gmail.com

EDUCATION

- **Bachelor Science Degree:** University of Mazandaran, Faculty of Natural Resources, Department of Wood and Paper Science and Technology
- Graduated Feb. 2007
Total unit credits passed: 142, GPA: **17.3** (on scale of 20), Honors Student
- **Master Science Degree:** Tarbiat Modares University, Faculty of Natural Resources and Marine Sciences
- Graduated Feb. 2010
Total unit credits passed: 25, GPA: **17.60** (on scale of 20), Honors Student

Thesis title: *“Effect of Kraft lignin as a compatibilizer in wood- plastic composites”*

Supervisors: **Saeed Kazemi-Najafi, Rabi Behrooz**

- **Ph.D Degree:** Tarbiat Modares University, Faculty of Natural Resources and Marine Sciences,
- Graduated Feb. 2014

Total unit credits passed: 20,

GPA: **18.50** (on scale of 20), Honors Student

Thesis title: “*Improvement of Urea Formaldehyde (UF) Resin Used in Particleboard Production by Modified Bagasse Soda Lignin and Nanoclay*”

Supervisors: **Saeed Kazemi-Najafi, Rabi Behrooz, Antonio Pizzi**

Research Interests

- Bio-based wood adhesives (first priority)
- Bio composites
- Wood- based composites

AREAS OF EXPERTISE

Language Skills:

- Persian (Farsi): Native language
- English: Good skill in reading, writing, speaking, listening and grammar
- Arabic: Good skill in reading; Moderate skill in writing

Computer Skills:

Good skill in some software such as Office, AutoCAD, Photoshop and Matlab

PUBLICATIONS

- 1- **Hamed Younesi-Kordkheili**, Antonio Pizzi, Ghorban Niyatzade. 2017. Reduction of formaldehyde emission from particleboard by phenolated kraft lignin. *The Journal of Adhesion*. 92(6):485-497.
- 2- **Hamed Younesi-Kordkheili**, Antonio Pizzi. 2016. Acid Ionic Liquids as a New Hardener in Urea-Glyoxal Adhesive Resins. *Polymers*. 8 (3): 1-16.
- 3- **Hamed Younesi-Kordkheili**, Saeed Kazemi-Najafi, Rabi Behrooz. 2016. Influence of Nanoclay on Urea-Glyoxalated Lignin-Formaldehyde Resins for Wood Adhesive. *The journal of Adhesion*. 93(6): 431-443.

- 4- **Hamed Younesi-Kordkheili**. 2017. Improving Physical and Mechanical Properties of New Lignin-Urea- Glyoxal Resin by Nanoclay. *European Journal of Wood and Wood Products*. 75: 885-891.
- 5- **Hamed Younesi-Kordkheili**, Antonio Pizzi. 2017. Ionic liquids as enhancers of urea-glyoxal panel adhesives as substitutes for urea–formaldehyde resins. *European Journal of Wood and Wood Products*. 75(3): 481-483.
- 6- **Hamed Younesi- Kordkheili**, Antonio Pizzi, Abbas Honarbakhsh Raouf, Firouzeh Nemati. 2016. The Effect of Modified Soda Bagasse Lignin by Ionic Liquid on Properties of Urea-Formaldehyde Resin as Wood Adhesive. *The Journal of Adhesion*.93(11): 914-925.
- 7- **Hamed Younesi- Kordkheili**, Antonio Pizzi, Ali Mohammadghasemipour.2018. Improving the properties of ionic liquid-treated lignin-urea-formaldehyde resins by a small addition of isocyanate for wood adhesive. *The Journal of Adhesion* 94 (5), 406-419.
- 8- **Hamed Younesi- Kordkheili**. 2018. Ionic liquid modified lignin-phenol-glyoxal resin: a green alternative resin for production of particleboards. *The Journal of Adhesion*. 95(12): 1075-1087.
- 9- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2018. Improving the physical and mechanical properties of particleboards made from urea–glyoxal resin by addition of pMDI. *European Journal of Wood and Wood Products* 76 (3), 871-876.
- 10- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2021. Synthesis of Lignin-Based Polyacid in an Acidic Ionic Liquid: A Green Method to Improve the Performance of Lignin as Catalyst in Urea-Formaldehyde Resin. *Journal of Renewable Materials*. 10 (2): 237-246.
- 11- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2020. Improving properties of phenol- lignin- glyoxal resin as a wood adhesive by an epoxy resin. *European Journal of Wood and Wood Products*. 79(1): 199-205.
- 12- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2020. Some of Physical and Mechanical Properties of Particleboard Panels bonded with Phenol- Lignin- Glyoxal Resin. *Journal of Adhesion*. 96(16): 1385-1395.
- 13- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2020. Improving the properties of urea-lignin-glyoxal resin as a wood adhesive by small addition of epoxy .*International Journal of Adhesion and Adhesives*. 102, 1-6.

- 14- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2020. Oxidized polyethylene as a new alternative coupling agent for the fiberboards made from UF resin. *The Journal of Adhesion*. 96(7): 665-678.
- 15- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2020. Ionic liquid- modified lignin as a bio- coupling agent for natural fiber- recycled polypropylene composites. *Composite Part B-Engineering*. 181: 1-6.
- 16- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2018. A comparison between the influence of nanoclay and isocyanate on urea-glyoxal resins. *International Wood Products Journal*. 9(1): 9-14.
- 17- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2018. Properties of plywood panels bonded with ionic liquid-modified lignin-phenol-formaldehyde resin. *The Journal of Adhesion*. 94(2): 143-154.
- 18- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2017. A comparison between lignin modified by ionic liquids and glyoxalated lignin as modifiers of urea- formaldehyde resin. *The Journal of Adhesion*. 93(14): 1120-1130.
- 19- **Hamed Younesi- Kordkheili**. 2021. Maleated Lignin Coreaction with Phenol-Formaldehyde Resins for Improved Wood Adhesives Performance. *International Journal of Adhesion and Adhesive*. *Accepted Manuscript*.
- 20- **Hamed Younesi- Kordkheili**, Antonio Pizzi. 2021. Lignin-based wood adhesives: A comparison between the influence of soda and Kraft lignin. *International Journal of Adhesion and Adhesive*. *Accepted Manuscript*.
- 21- **Hamed Younesi- Kordkheili**, Saeed Kazemi-Najfafi, Rabi Behrooz, Antonio Pizzi. 2015. Improving Urea Formaldehyde Resin Properties by Glyoxalated Soda Bagasse Lignin. *European Journal of Wood and Wood Products*.73: 77-85.

- 22- **Hamed Younesi-Kordkheili**, Salim Hiziroglu, Mohammad Farsi. 2012. Some of the Physical and Mechanical Properties of Cement Composites Manufactured from Carbon Nanotubes and Bagasse Fiber. *Materials and Design*. 33: 395-398.
- 23- **Hamed Younesi-Kordkheili**, Mohammad Farsi, Zahra Rezazadeh. 2013. Physical, Mechanical and Morphological Properties of Polymer Composites Manufactured from Carbon nanotubes and Wood Flour. *Composites Part B*. 44(1): 750-755.
- 24- Saeed Kazemi Najafi, **Hamed Younesi-Kordkheili**. 2011. Effect of Sea waters on long-term water absorption and flexural properties properties of wood-polypropylene composites, *Journal of Holz als Roh- und Werkstoff*. 69 (4): 553-556.
- 25- Behbood Mohebbi, **Hamed Younesi-Kordkheili**, Alireza Ghotbifar, and Saeed Kazemi-Najafi. 2010. Water and Moisture Absorption and Thickness Swelling Behavior in Polypropylene/Wood Flour/Glass Fiber Hybrid Composites, *Journal of Reinforced Plastic and Composites*. 29(6): 830-839.
- 26- Rabi Behrooz, **Hamed Younesi-Kordkheili** and Saeed Kazemi Najaf. 2011. Physical properties of lignin added wood flour-polypropylene composites: A comparison of direct and solvent mixing techniques. *Asian Journal of chemistry*. 33(2): 214-221.
- 27- **Hamed Younesi-Kordkheili**, Rabi Behrooz, Mehran Jalilvand. 2012. Using industrial waste of Old Corrugating Containers (OCC) paper recycling mill in composite panels manufacturing, *Journal of Reinforced Plastic and Composites*, 31 (12), 855-860.
- 28- Morteza Nazerian, Fateme Naderi, Ali Partovinia, **Hamed Younesi-Kordkheili**. 2021. Developing ANFIS-based models to predict bending strength of polyurethane foam-cored sandwich panels. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*. Accepted Manuscript.
- 29- **Hamed Younesi-Kordkheili**, Shokouh Etedali Shehni, Ghorban Niyatzade. **2015**. Effect of carbon nanotube on physical and mechanical properties of natural fiber/glass fiber/cement composites. *Journal of Forestry Research*. 26, 247–251.

- 30- **Hamed Younesi- Kordkheili**, Saeed Kazemi-Najfi, Rabi Behrooz. 2016. The effect of nanoclay on physicochemical, thermal and structural properties of UF resin. *Journal of Forest and Wood products*. 69(3): 561-570.
- 31- **Hamed Younesi- Kordkheili**, Abbas Honarbakhsh- Raof. 2017. The Effect of Nanoclay on Physical and Mechanical Properties of Particleboard Made from Urea-Kraft Lignin- Glyoxal Green Wood Adhesive. *Iranian Journal of Wood and Paper Industries*. 8(1): 119-129.
- 32- **Hamed Younesi-Kordkheili**, Reza Naghdi, Abbas Honarbakhsh-Raof. 2016. Investigation some physical and mechanical properties of polypropylene fiber /wood / cement composites. *Iranian Journal of Wood and Paper Industries*. 7(2): 207-217.
- 33- Reza Naghdi, Elham Nadali, **Hamed Younesi-Kordkheili**. 2015. Evaluation of Pulp and Paper Properties obtained from Maple Juvenile Wood through Organosolv Alcohol Method Catalyzed by Calcium and Magnesium Salts. *Iranian Journal of Wood and Paper Industries*. 6(1): 31-40.
- 34- **Hamed Younesi-Kordkheili**, Reza Naghdi, Mojtaba Amiri. 2015. The Effect of Nanoclay on Physicochemical, Mechanical and Thermal Properties of New Urea- Glyoxal Resin. *Iranian Journal of Wood and Paper Industries*. 6(1): 133-143.
- 35- **Hamed Younesi-Kordkheili**, Saeed Kazemi Najafi, Rabi Behrooz, Antonio Pizzi. 2015. Investigation Changes in Structure and Thermal Properties of Glyoxalated Soda and Kraft Lignins. *Journal of forest and wood products*. 68(1): 169-179.
- 36- **Hamed Younesi-Kordkheili**, Mohammad Farsi. 2012. Effect of Single Wall Carbon Nanotubes on Physical and Mechanical Properties of Wood Fiber- LDPE Composites. *Journal of Forest and Wood Products* 65 (2), 169-181.
- 37- Saeed Kazemi Najafi, **Hamed Younesi-Kordkheili**, Reza Nasiri. 2010. Effect of Sea Water on Performance of Maleic Anhydride Compatibilizer in Water Absorption Behavior of Wood Plastic Composites. *Iranian Journal of Natural Resource*. 62 (3): 301-311.

38-**Hamed Younesi-Kordkheili**, Rabi Behrooz, Saeed Kazemi Najafi. 2010. Effect of Kraft lignin mixing method as a compatibilizer on the physical and mechanical properties of wood- plastic composites. *Iranian scientific association of wood and paper industries journal*. 1(2): 103-113.

39-**Hamed Younesi-Kordkheili**, Saeed Kazemi Najafi. 2010. A comparison between long-term water with steam absorption in wood plastic composites. *Journal of Wood Industry and Forest Research*. 18 (2): 129-134.

40-**Hamed Younesi-Kordkheili**, Jalilvand Mehran, Rabi Behrooz. Creep behavior of composites made from OCC paper recycling mills. *Iranian wood and paper researches (in Persian)*. 26(4): 798-810.

41- Rabi Behrooz, **Hamed Younesi-Kordkheili**, Saeed Kazemi Najafi. Using of lignin as a compatibilizer on the physical and mechanical properties of wood plastic composites. *Iranian wood and paper researches (in Persian)*. 26(3): 454-465.

42-**Hamed Younesi-Kordkheili**, Rabi Behrooz, Saeed Kazemi Najafi. Using of Kraft lignin by solvent mixing method on properties of wood plastic composites. *Journal of Chemistry engineering (in Persian)*. 30 (3): 1390.

HONOR AND AWARDS

- Head of the department of wood and paper science and technology, Semnan University, Semnan, Iran.
- Academic staff department of wood and paper science and technology, Semnan University from 2014 to now.
- Teaching different lessons such as: wood adhesives, wood mechanics, Physics of wood, wood-based composites at B.S and M.S courses in Semnan University.
- The best researcher in Semnan province, Iran. 2018.
- The best researcher in Semnan University, Semnan, Iran. (2017 and 2019).

- The best student researcher in Tarbiat Modares University, 2011.
- Rank of 1 in Iran, 2010. National PhD's degree admission exam, Wood based composites.
- Rank 20 in Iran; 2007: national master's degree admission exam, Wood and Paper Science.
- Establish of association wood and paper science in Tarbiat Modares University, 2010.
- Advisor of Nasim chob Mazandaran Company which produces wood plastic composites and foam PVC, 2010.
- Register of three Patents about wood-based adhesives in Iran.
- Honors student in academic year 2007-2008 (GPA of Courses: 17.97 on scale of 20); Master's degree, Wood and Paper science, Tarbiat Modares University, Faculty of Natural Resource and Marine Sciences.
- Honors student in academic year 2003-2007 (GPA of Courses: 17.3 on scale of 20); BSc degree, Wood and Paper science, University of Mazandaran, Faculty of Natural Resource, Sari, Iran.